

Work Order ID 138078

Tuesday, November 03, 2015 11:41:30 AM

138078

DUPLICATE

Page 1

Item ID: 647.7303 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: EC135 Cable Cutters (Removable Provisions Only)
 Start Date: 10/23/2015 Start Qty: 2.00 ***2*** Cust Item ID:
 Required Date: 11/19/2015 Req'd Qty: 2.00 ***2*** Customer:
 Reference:

Approvals: Process Plan: MF Date: 5-11-04 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	A								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.7303								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
27
9-89

DAS
6
9-89

NOV 25 2015

DAS
27
9-89

NOV 03 2015

DAS
28
9-89

NOV 25 2015

DAS
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY																																																																																																																											
Environment	☐	Design	☐	Doc/Data	☐	Equip/Tooling	☐	Handling/Pre	☐	Material	☐	Internal Transport	☐	Tribal Knowledge	☐	LOA	☐	Substation	☐	Past Expiry Date	☐	Misidentified	☐	No Re-verification	☐	Operator	☐	Offset/Setup	☐	Supplier	☐	Training	☐	Use for Testing	☐	Poor Information	☐	Rushing	☐	Product Improvement	☐	Process Improvement	☐	Manufacturing Process	☐	Past Due	☐	Pressure/Forced	☐	Bending	☐	Centre Not Concentric	☐	Cracks	☐	Crimp/Kink/Ripple/Wave	☐	Cuffs	☐	Crushing	☐	Heat Treat	☐	Wave/Twist in Tube	☐	Marks/Chatter	☐	Temperature/Cure	☐	Set-up	☐	BOM/Route	☐	Broken/Damage/Defect	☐	Inspection Incomplete/Unqualified	☐	Contamination	☐	Countersink	☐	Cut Too Short	☐	Instructions Incomplete/Unclear	☐	Drill Holes	☐	Power Loss/Surge	☐	Folio/Program	☐	Grain	☐	Weld	☐	Wrong Stock Pulled	☐	Out of Sequence	☐	Off-set	☐	Mislabeled	☐	Fit/Function	☐	Misaligned/off center	☐	Positioned Wrong	☐	Outside Dimensions	☐	Over/Under tolerance	☐	Part Incorrect	☐	Part Lost/Missing	☐	Part Moved	☐	Drawing	☐	Finish	☐	Misread	☐	Turning Sequence	☐
																								OTHER : ☐																																																																																																							

Work Order ID 138078

138078

Page 2

Tuesday, November 03, 2015 11:41:30 AM

Item ID: 647.7303 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: EC135 Cable Cutters (Removable Provisions Only)
 Start Date: 10/23/2015 Start Qty: 2.00 ***2*** Cust Item ID:
 Required Date: 11/19/2015 Req'd Qty: 2.00 ***2*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.7303								
	Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

SLD 20151125

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER :			
Misidentified ☐	☐	Past Due	☐				

Picklist Print

Tuesday, November 03, 2015 11:41:29 AM

Page 1

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7401 *647-7401* Upper Cutter Assembly 9-89		Manufactured	No				Each	0.0000	1	2			DAS 28 9-89
647.7501 *647-7501* Lower Cutter Assembly 9-89		Manufactured	No				Each	0.0000	1	2			DAS 28 9-89
647.1701 *647-1701* Skid Deflector Assembly 9-89		Manufactured	No				Each	1.0000	1	4			DAS 27 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CCK033		1				1			
				135086		1				1			
647.7702 *647-7702* Strut Assembly 9-89		Manufactured	No				Each	4.0000	1	4			DAS 27 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CCK051		4				4			DAS 28 9-89
				M130388		4				4			
647.7701 *647-7701* Strut Assembly 9-89		Manufactured	No				Each	5.0000	1	4			DAS 27 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CCK114		5				4			
				M130388		5				4			

NOV 03 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter		☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence	
OTHER : ☐											

Picklist Print

Tuesday, November 03, 2015 11:41:29 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

647.0112

Manufactured No

Each

121.0000

8

**

DAS
27
9-89

DAS
28
9-89

647 0112
Strut Bracket

Location

Loc Qty

Loc Code

CCK032a

114

123318

22

M130388

92

CCK107

1

122245

1

CCK109

6

122871

6

123318

0

AN665-34R

Purchased No

Each

28.0000

8

**

DAS
27
9-89

DAS
28
9-89

AN665-34R
Clevis

Location

Loc Qty

Loc Code

ST330

28

M130388

4

M133134

14

M133483

10

AN3-11A

Purchased No

Each

132.0000

8

**

DAS
27
9-89

DAS
28
9-89

AN3-11A
Bolt

Location

Loc Qty

Loc Code

ST338a

50

m133363

50

ST349

82

m132823

8

m133234

74

NOV 03 2015

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, November 03, 2015 11:41:29 AM

Page 3

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

AN4C7A

Purchased

No

Each

56.0000

8

AN4C7A

BOLT

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST340

20

m133363

20

ST345

36

m127363

36

Each

140.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

140

123900

128

m130388

12

Each

35.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

35

m128199

23

m130388

12

Each

116.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

116

124328

72

M130388

44

NOV 03 2015

NAS6603-12

Purchased

No

NAS6603-12

Bolt

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

140

123900

128

m130388

12

Each

35.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

35

m128199

23

m130388

12

Each

116.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

116

124328

72

M130388

44

NOV 03 2015

NAS6604-66

Purchased

No

NAS6604-66

Bolt

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

116

124328

72

M130388

44

NOV 03 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, November 03, 2015 11:41:30 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS21042-08 MS21042L08

Purchased No

Each 33.0000 12

MS21042-08

USE MS21042L08

DAS
6
9-89

Location

Loc Qty

Loc Code

DAS
27
9-89

ST304

25

122815

25

ST306

8

m130388

8

Each 196.0000

**

MS21042-3

MS21042L3

Purchased No

MS21042-3

Nut / use MS21042L3

DAS
6
9-89

Location

Loc Qty

Loc Code

DAS
27
9-89

ST305

196

M129682

196

NOV 03 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification ☐	☐	Pressure/Forced ☐	☐	Temperature/Cure ☐	☐
Design ☐	☐	Operator ☐	☐	Bending ☐	☐	Set-up ☐	☐
Doc/Data ☐	☐	Offset/Setup ☐	☐	Centre Not Concentric ☐	☐	BOM/Route ☐	☐
Equip/Tooling ☐	☐	Supplier ☐	☐	Cracks ☐	☐	Broken/Damage/Defect ☐	☐
Handling/Pre ☐	☐	Training ☐	☐	Crimp/Kink/Ripple/Wave ☐	☐	Inspection Incomplete/Unqualified ☐	☐
Material ☐	☐	Use for Testing ☐	☐	Cuffs ☐	☐	Contamination ☐	☐
Internal Transport ☐	☐	Poor Information ☐	☐	Crushing ☐	☐	Countersink ☐	☐
Tribal Knowledge ☐	☐	Rushing ☐	☐	Heat Treat ☐	☐	Cut Too Short ☐	☐
LOA ☐	☐	Product Improvement ☐	☐	Wave/Twist in Tube ☐	☐	Instructions Incomplete/Unclear ☐	☐
Substation ☐	☐	Process Improvement ☐	☐	Marks/Chatter ☐	☐	Drill Holes ☐	☐
Past Expiry Date ☐	☐	Manufacturing Process ☐	☐	OTHER : _____			
Misidentified ☐	☐	Past Due ☐	☐				

Picklist Print

Tuesday, November 03, 2015 11:41:30 AM

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Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS21042L4

Purchased

No

Each

2,382.000

16

MS21042L4

Locknut

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

CCK004

2000

m133363

2000

FP001

2

m124231

2

GA

67

m127813

67

ST260a

138

m130799

56

m131803

6

m132262

76

ST305

175

m128300

8

m130388

7

m130922

97

m132123

56

m133316

7

AN316C4R

Purchased

No

Each

53.0000

8

AN316C4R

NUT

DAS

DAS

27

28

9-89

9-89

NOV 03 2015

Location

Loc Qty

Loc Code

ST331

53

1X m127618

3

3X m133234

50

Tuesday, November 03, 2015 11:41:30 AM

Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : ☐			

Picklist Print

Page 6

Tuesday, November 03, 2015 11:41:30 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS27039-08-13

Purchased

No

Each

370.0000

8

MS27039-08-13

Screw

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ckk007a

346

124326

346

ST281

24

4067

20

M130388

4

Each

106.0000

4

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

CA

48

112466

48

ST281

58

M130388

58

Each

1,954.000

24

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

GA

166

125268

166

ST260a

500

M133316

500

ST267

367

125268

100

M133284

267

st268

921

M130388

921

NAS1149FN832P

Purchased

No

Each

1,954.000

24

NAS1149FN832P

Washer

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

GA

166

125268

166

ST260a

500

M133316

500

ST267

367

125268

100

M133284

267

st268

921

M130388

921

NOV 03 2015

Tuesday, November 03, 2015 11:41:30 AM

Shop Packet Print

Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :			
Misidentified	☐	Past Due	☐				

Picklist Print

Page 7

Tuesday, November 03, 2015 11:41:30 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

NAS1149F0332P

Purchased

No

Each

1,189.000

24

NAS1149F0332P

**

Washer

Location

Loc Qty

Loc Code

DAS

DAS

27

28

9-89

9-89

GA

132

122063

132

ST260a

636

m128401

6

m131026

80

m131697

50

m133284

500

st268

117

123900

7

m130388

86

m133077

24

ST288

304

m133134

304

Each

746.0000

16

**

NAS1149F0432P

Purchased

No

NAS1149F0432P

WASHER

Location

Loc Qty

Loc Code

DAS

DAS

27

28

9-89

9-89

ST260a

500

M132551

500

st268

246

M128995

63

M130388

8

M132677

125

M133234

50

NOV 03 2015

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Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Page 8

Tuesday, November 03, 2015 11:41:30 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

601.2045

Purchased

No

Each

10.0000

2

BAS

DAS

27

28

9-89

9-89

601 2045

RTV (LOCTITE 598)

6
9-89

Location

Loc Qty

Loc Code

CCK096

10

m133275

10

Each

1,146.000

16

BAS

DAS

27

28

9-89

9-89

NAS1149F0463P

Purchased

No

NAS1149F0463P

Washer

Location

Loc Qty

Loc Code

ST260a

973

m127832

973

st268

173

m127832

157

m130388

16

NOV 03 2015

Tuesday, November 03, 2015 11:41:30 AM

Shop Packet Print

Page 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

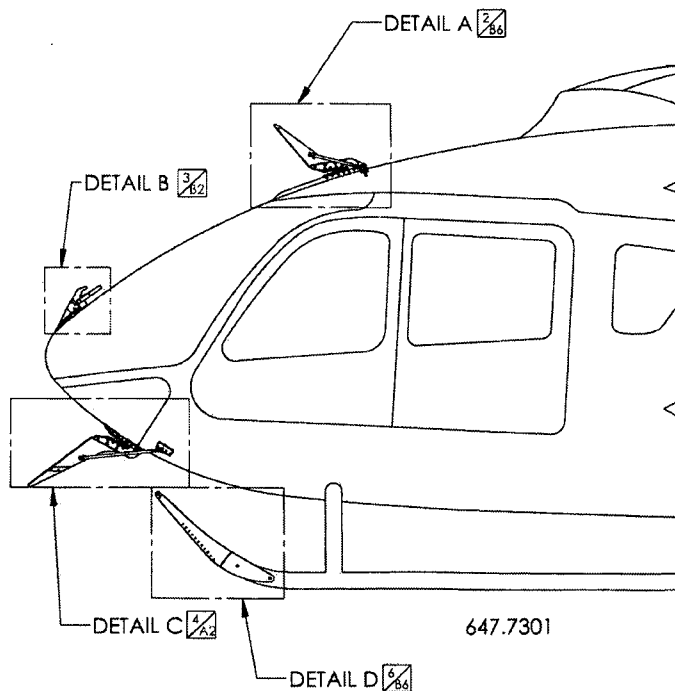
Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

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NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.
- 2 APPLY F/N 91 TO FAYING SURFACES.
- 3 AT CUSTOMERS OPTION, INSTALL F/N 92 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 4 MATCH DRILL HOLES THROUGH F/N 26 AND FUSELAGE.
- 5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.
- 6 AT CUSTOMERS OPTION, INSTALL F/N 101 BY MATCH DRILLING ONTO F/N 1.



UNINCORPORATED ECN(s)

03044

		REF	100	647.5701	GPS MOUNT KIT		
	24	24	99	601.3213	CHERRY RIVET	CR3523-4-4	
	8	8	98	601.3214	CHERRY RIVET	CR3523-5-3	
	4	4	97	601.3212	CHERRY RIVET		
8		8	96	601.1097	WASHER		
	1	1	95	647.7919	SHIM		
	1	1	94	600.0990	MAGNOBOND 6398 PART A		
	1	1	93	600.0991	MAGNOBOND 6398 PART B		
		REF	92	647.5701	GPS MOUNT KIT		
		1	91	601.2075	RTV	LOCITEC 598	
	1	1	90	600.1012	SEALANT	PP-1425 CLASS B	
	3	3	89	601.2375	WASHER		
	4	4	88	601.3126	WASHER		
8		8	87	601.2638	WASHER		
12	74	86	86	601.1607	WASHER		
12	2	14	85	601.2764	WASHER		
	2	2	84	601.3136	CHERRY RIVET		
	8	8	83	601.3215	CHERRY RIVET	CR3522-5-3	
	8	8	82	601.3216	CHERRY RIVET	CR3522-4-3	
	12	12	81	601.2481	CHERRY RIVET	CR3213-5-4	
	16	16	98	601.2020	CHERRY RIVET	CR3213-5-3	
	17	17	79	601.2991	CHERRY RIVET	CR3213-4-6	
	8	8	78	601.1183	CHERRY RIVET	CR3213-4-5	
	16	16	99	601.1915	CHERRY RIVET	CR3213-4-4	
	24	24	97	601.0790	CHERRY RIVET	CR3213-4-3	
	4	4	75	601.1604	CHERRY RIVET	CR3215-4-2	
	4	4	74	601.1983	NUTPLATE RIVET	CCR27453-3-03	
	24	24	73	601.2207	NUTPLATE RIVET	CCR26455-3-03	
	3	3	72	601.2999	SCREW		
	6	6	71	601.2829	SCREW	M524649454	
	2	2	70	601.1954	SCREW	M527039-1-17	
	4	4	69	601.2637	SCREW	M527039-1-16	
	1	1	68	601.3012	SCREW	M527039-1-15	
	4	4	67	601.1622	SCREW	M527039-1-14	
	2	2	66	601.1953	SCREW	M527039-1-12	
	6	6	65	601.1365	SCREW	M527039-1-10	
	12	12	64	601.3069	SCREW	M527039-1-09	
	3	3	63	601.2198	SCREW	M527039-1-07	
16		2	62	601.3137	SCREW	M527039-09-1	
	4	4	61	601.2988	SCREW	M527039-08-3	
	1	1	60	601.2525	SCREW	M527039-0807	
	4	4	59	601.3127	LOCKNUT	M5210425	
	2	2	58	647.8512	INSERT		
	4	4	57	647.8511	INSERT		
	19	19	56	647.8510	INSERT		
	4	4	55	601.3128	NUT		
	8	54	601.3209	LOCKNUT			
30	34	53	601.2943	LOCKNUT			
1	7	52	601.2973	LOCKNUT			
	4	51	601.3002	BOLT			
	4	50	601.3130	BOLT			
	4	49	601.1500	BOLT			
	4	48	601.2669	BOLT			
	1	1	47	601.1324	BOLT	A114CH6A	
	4	46	601.2826	BOLT			
	2	2	45	601.2823	BOLT	ANS-44	
	12	12	44	600.0795	NUTPLATE	M521047-3	
	2	2	43	601.3004	CAMLOC STUD		
7303	7302	7301	FIND	PART #	DESCRIPTION	MAT'L	SPEC

REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISION: PFA		NIC
N/C	INITIAL RELEASE:	01/13/09	P. BRAVO
A	INCORPORATED ECN(S) 02938, 03000, 03044, 03046	02/16/11	P. BRAVO

REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISION: PFA		NIC
N/C	INITIAL RELEASE:	01/13/09	P. BRAVO
A	INCORPORATED ECN(S) 02938, 03000, 03044, 03046	02/16/11	P. BRAVO

QTY	7302	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC
2	2	42		601.3005	CAMLOC RETAINER		
2	2	41		601.3006	CAMLOC RECEPTACLE		
4	40			601.3119	CLEVIS		
2	2	39		601.3120	EYE BOLT		
2	2	38		601.3121	EYE BOLT		
1.5FT	1.5FT	37		601.3007	GROMMET		
1.5FT	1.5FT	36		601.3011	P-SEAL		
1	1	35		647.3201	GROUNDING CABLE ASSY		
4	4	34		647.2511	NUT		
4	4	33		647.2510	SLEEVE		
13	13	32		647.1812	SHIM		
2	2	31		647.1811	SPACER		
1	1	30		647.1602	DOUBLER ASSY		
1	1	29		647.1914	BRACKET		
1	1	28		647.7822	EYE BOLT FITTING RH		
1	1	27		647.7821	EYE BOLT FITTING LH		
1	1	26		647.7818	MOUNTING CHANNEL		
1	1	25		647.7820	CROSS BRACKET AFT		
1	1	24		647.7819	CROSS BRACKET FWD		
1	1	23		647.7918	BRACKET		
1	1	22		647.7917	BRACKET		
2	2	21		647.7916	BRACKET		
1	1	20		647.7915	BRACKET		
1	1	19		647.7914	BRACKET		
2	2	18		647.7913	DOUBLER		
4	4	17		647.7912	CLIP		
2	2	16		647.7911	BRACKET		
2	2	15		647.7910	ANGLE BRACKET		
1	4	14		647.7909	STRUT BRACKET		
1	13			647.7810	NOSE DOOR DOUBLER		
1	12			647.7818	NOSE DOOR SPACER		
2	11			647.7701	STRUT ASSY		
2	10			647.7702	STRUT ASSY		
1	9			647.1815	GUSSET, RH		
1	8			647.1814	GUSSET, LH		
1	7			647.1915	SUPPORT ANGLE		
1	6			647.1913	TEE		
1	5			647.1610	WIPER DEFLECTOR, FWD		
1	4			647.1601	WIPER DEFLECTOR ASSY, AFT		
2	3			647.1701	SKID DEFLECTOR ASSY		
1	2			647.7501	LOWER CUTTER ASSY		
1	1			647.2401	UPPER CUTTER ASSY		
				647.7303	REMOVABLE PROVISIONS KIT		
				647.7302	FIXED PROVISIONS KIT		
				647.7301	EC135 CABLE CUTTERS KIT		
QTY	7302	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

EC135 CABLE CUTTERS KIT

REV. 647.7300

SCALE: NONE SHEET 1 OF 6